

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A method for part purification of a ~~desired protein~~ fibrinogen having a pre-selected A chain integrity from milk, comprising the following steps:

- a) precipitating the ~~desired protein~~ fibrinogen from milk; and
- b) separating the precipitated ~~desired protein~~ fibrinogen from protease enzymes contained in whey and thereby recovering ~~the a part-purified protein~~ fibrinogen.

2. (Currently Amended) The method of Claim 1, wherein the ~~desired protein is fibrinogen and the method optionally~~ comprises the further steps of:

- (c) contacting the part-purified fibrinogen with a hydrophobic interaction chromatography resin under conditions wherein the fibrinogen binds to the resin; and
- (d) removing the bound fibrinogen by means of elution.

3. (Previously Presented) The method of Claim 1, wherein the precipitation step, separation step, or both are achieved in the presence of lysine, a lysine analogue,  $\epsilon$ -aminocaproic acid, or a combination thereof.

4. (Cancelled).

5. (Currently Amended) A method for obtaining fibrinogen having a pre-selected A chain integrity from a fluid, the method comprising:

- (a) contacting the fluid with a hydrophobic interaction chromatography resin under conditions wherein the fibrinogen binds to the resin; and
- (b) removing the bound fibrinogen by means of elution.

6 - 8. (Cancelled).

9. (Previously Presented) The method of Claim 1, wherein the protease enzyme

is plasmin, plasminogen, or combination thereof.

10- 11. (Cancelled).

12. (Previously Presented) The method of Claim 1, wherein the milk comprises whole milk, skimmed milk, or a milk fraction.

13. (Previously Presented) The method of Claim 1, wherein the milk is derived from a sheep, cow, goat, rabbit, camel, water buffalo, pig or horse.

14. (Previously Presented) The method of Claim 2, wherein the fibrinogen is derived from transgenic bovine or human

15. (Previously Presented) The method of Claim 1, wherein the part-purified protein is further purified by repeating step (a), step (b) or both.

16 – 29. (Cancelled).

30. (Previously Presented) The method of Claim 1, wherein steps (a) and (b) are performed simultaneously.

31. (Previously Presented) The method of Claim 1, wherein the milk is derived from a transgenic mammal.